

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	31	(lcp or linear near complementarity near problem) and island near4 process\$4	US-PGPU B; USPAT	NEAR	OFF	2007/08/22 19:14
L2	2	(lcp or linear near complementarity near problem) and island near4 process\$4 and execut\$4	US-PGPU B; USPAT	NEAR	OFF	2007/08/22 18:41
L3	2	(linear near complementarity near problem) and island near4 process\$4	US-PGPU B; USPAT	NEAR	OFF	2007/08/22 18:48
L4	6555	(lcp or linear near complementarity near problem)	US-PGPU B; USPAT	NEAR	OFF	2007/08/22 19:14
L5	14	linear near complementarity near problem	US-PGPU B; USPAT	NEAR	OFF	2007/08/22 19:14



USPTO

[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)

 Search: ☐ The ACM Digital Library ☒ The Guide

THE GUIDE TO COMPUTING LITERATURE

[Feedback](#) [Report a problem](#) [Satisfaction survey](#)
A Comparison of Large Scale Mixed Complementarity Problem Solvers

Full text



Source

Computational Optimization and Applications [archive](#)
Volume 7, Issue 1 (January 1997) [table of contents](#)

Pages: 3 - 25

Year of Publication: 1997

ISSN:0926-6003

Authors

[Stephen C.](#)

Mathematics Department, University of Colorado, Denver, Colorado 80217; E-mail:

[Billups](#)
sbillups@carbon.cudenver.edu
[Steven P. Dirkse](#)
GAMS Development Corporation, Washington, DC 20007; E-mail: steve@gams.com
[Michael C. Ferris](#)

Computer Sciences Department, University of Wisconsin, Madison, Wisconsin 53706; E-mail:

ferris@cs.wisc.edu

Publisher

Kluwer Academic Publishers Norwell, MA, USA

Additional Information: [abstract](#) [references](#) [cited by](#) [index terms](#) [collaborative colleagues](#)

Tools and Actions:

[Find similar Articles](#)[Review this Article](#)[Save this Article to a Binder](#)Display Formats: [BibTex](#) [EndNote](#) [ACM Ref](#)

DOI Bookmark:

[10.1023/A:1008632215341](https://doi.org/10.1023/A:1008632215341)
 ↑ **ABSTRACT**

This paper provides a means for comparing various computer codes for solving large scale mixed complementarity problems. We discuss inadequacies in how solvers are currently compared, and present a testing environment that addresses these inadequacies. This testing environment consists of a library of test problems, along with GAMS and MATLAB interfaces that allow these problems to be easily accessed. The environment is intended for use as a tool by other researchers to better understand both their algorithms and their implementations, and to direct research toward problem classes that are currently the most challenging. As an initial benchmark, eight different algorithm implementations for large scale mixed complementarity problems are briefly described and tested with default parameter settings using the new testing environment.

 ↑ **REFERENCES**

Note: OCR errors may be found in this Reference List extracted from the full text article. ACM has opted to expose the complete List rather than only correct and linked references.

- 1 [Stephen Clyde Billups, Algorithms for complementarity problems and generalized equations, University of Wisconsin at Madison, Madison, WI, 1996](#)
- 2 [Stephen C. Billups, Michael C. Ferris, QPCOMP: a quadratic programming based solver for mixed complementarity problems, Mathematical Programming: Series A and B, v.76 n.3, p.533-562, Mar 1, 1997. \[doi>10.1007/BF02614397\]](#)
- 3 3. A. Brooke, D. Kendrick, and A. Meeraus. <i>GAMS: A User's Guide</i>. The Scientific Press, South San Francisco, CA, 1988.